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EDUCATION

University of California, Los Angeles
B.S. in Computer Science — September 2014 - June 2018

- GPA: 3.55, Major GPA: 3.62
- BD Academic Achievement Scholarship

EMPLOYMENT

Prysm
Software Engineering Intern — June 2017 - September 2017

- Created a testing and development infrastructure for Amazon Alexa skills (C++)
- Integrated Amazon Alexa with the Microsoft Graph API (Node.js)
  - e.g. send emails and search a person's contacts list with voice
- Created an authorization server to link Amazon Alexa accounts with Prysm Synthesis accounts (Node.js)

Prysm
Software Engineering Intern — June 2016 - September 2016

- Prototyped a voice control system to add to Prysm's multitouch software, Synthesis (C, bash scripting, JavaScript)
  - This system routed voice commands to an Amazon Echo to a Raspberry Pi web server to Synthesis's internal APIs.
  - Lended credence for a voice user interface on the product roadmap

CapsoVision
Engineering Intern at CapsoVision — July 2015 - September 2015

- Wrote a validation protocol for the medical software, CapsoView, to pass audits by the FDA
- Reorganized and documented clinical trial data for CapsoCam

PROJECTS

View the source code and READMEs on my github.

hanstxu.github.io A personal website (HTML, CSS, JavaScript)
resume.tex A resume (LaTeX)
bash.exe Bash commands for Windows cmd (C++)
alexa_endpoint_js A web server for an Amazon Alexa Skill (Node.js)
alexa_endpoint_cpp A web server for an Amazon Alexa Skill (C++)
simple_json_cpp A lightweight JSON library (C++)
class_refresh A notification chrome extension (JavaScript)
LightRunner A space asteroid dodging game utilizing a Leap Motion sensor (C++)

COURSEWORK

Completed
- Networking (C++)
- Operating Systems (C, C++)
- Database Systems (HTML, CSS, PHP, SQL, C++)
- Algorithms and Complexity
- Programming Languages (OCaml, Java, Prolog, Scheme, Python)
- Artificial Intelligence (Lisp)
- Computer Graphics (JavaScript, C++)
- Data Structures (C++)
- Digital Design Laboratory (Verilog)

Upcoming
- Compilers (Java)
- Machine Learning (Python)
- Software Engineering Capstone

LANGUAGES

- C++	◉ ◉ ◉ ◉ ◉ ◉
- C	◉ ◉ ◉ ◉ ◉ ◉
- JavaScript	◉ ◉ ◉ ◉ ◉ ○
- Bash	◉ ◉ ◉ ◉ ○ ○
- HTML	◉ ◉ ◉ ◉ ○ ○
- CSS	◉ ◉ ◉ ◉ ○ ○
- Java	◉ ◉ ◉ ◉ ○ ○
- Scheme	◉ ◉ ◉ ◉ ○ ○
- Lisp	◉ ◉ ◉ ◉ ○ ○
- LaTeX	◉ ◉ ◉ ◉ ○ ○
- OCaml	◉ ◉ ◉ ○ ○ ○
- Python	◉ ◉ ◉ ○ ○ ○
- SQL	◉ ◉ ◉ ○ ○ ○
- php	◉ ◉ ◉ ○ ○ ○
- C#	◉ ◉ ◉ ○ ○ ○
- Prolog	◉ ◉ ○ ○ ○ ○
- Verilog	◉ ○ ○ ○ ○ ○

SOFTWARE

- Linux	- Node.js
- Make	- git
- Vagrant	- AWS EC2
- AWS Lambda	- Apache
- MySQL	- Docker